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TITLE: SEMICONDUCTOR DEVICE AND ITS PRODUCTION

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ABSTRACT:

PURPOSE: To obtain a semiconductor device which is sufficiently lowered in the wiring resistance of main scanning line and is not degraded in production yield even under severe production conditions by providing the scanning lines with first metallic layers consisting essentially of aluminum, alloy layers and second metallic layers.

CONSTITUTION: An array substrate for an active matrix type display device has signal lines and the scanning lines Yn-1 intersecting orthogonally with the signal lines on a transparent glass substrate 100. The scanning lines Yn-1 includes the first metallic layers 111 consisting of the pure aluminum(Al), the second metallic layers 113 consisting of molybdenum(Mo) arranged on the upper layers of the metallic layers 111 and the alloy layers 115 consisting of Mo-tungsten (W) alloy covering the metallic layers 111, 113. As a result, the wiring resistance of the scanning lines Yn-1 themselves is sufficiently lowered and the hillocks and round bulging of the scanning lines themselves or the degradation in the production yield by insulation defects, etc., are lessened.

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